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## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of manufacturing a liquid crystal display device, comprising:

forming a switching element on a substrate;

forming a passivation layer over the substrate;

depositing a metal layer on the passivation layer;

forming a photoresist pattern on a surface of the metal layer, such that an upper portion of said metal layer is exposed;

treating the exposed portion of said metal layer with a first plasma, prior to any step of etching said photoresist pattern, and prior to any step of etching said metal layer, thereby lowering an internal binding force in the exposed portion of said metal layer to increase a subsequent etch rate of said metal layer; and

etching the treated portion of said metal layer to form a pixel electrode, wherein said depositing a metal layer on the passivation layer, forming a photoresist pattern, and treating the exposed portion of said metal layer and etching the treated portion of said metal layer are sequentially performed[[,]] said etching the treated portion of said metal layer being the first step of etching performed in said sequence.

2. (Original) The method of claim 1, wherein the switching element is a thin film transistor.

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3. (Original) The method of claim 1, wherein the step of treating the exposed portion of the metal layer includes,

using a reactive gas to lower a binding force in the exposed portion.

4. (Original) The method of claim 3, wherein the reactive gas includes H<sub>2</sub> plasma gas.

5. (Original) The method of claim 1, wherein the step of treating the exposed portion of the metal layer includes,

using a non-reactive gas to lower a binding force in the exposed portion.

- 6. (Original) The method of claim 5, wherein the non-reactive gas includes Ar or N<sub>2</sub> plasma gas.
- 7. (Original) The method of claim 1, wherein the step of etching the metal layer involves a dry-etching technique.
- 8. (Original) The method of claim 7, wherein the step of etching the metal layer includes,

etching the metal layer with HBr plasma gas.

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9. (Original) The method of claim 7, wherein the step of etching the metal layer includes,

etching the metal layer with a composition of HBr plasma gas and Cl<sub>2</sub> plasma gas.

10. (Original) The method of claim 7, wherein the step of etching the metal layer includes,

etching the metal layer with a composition of HBr plasma gas and CH<sub>4</sub> plasma gas.

- 11. (Original) The method of claim 1, wherein the metal layer includes one of indium tin oxide (ITO) and indium zinc oxide (IZO).
  - 12. (Cancelled)
- 13. (Previously Presented) The method of claim 30, wherein the first gas is a reactive gas.
- 14. (Original) The method of claim 13, wherein the reactive gas includes H<sub>2</sub> plasma gas.

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15. (Previously Presented) The method of claim 30, wherein the first gas is a non-reactive gas.

- 16. (Original) The method of claim 15, wherein the non-reactive gas includes Ar or N<sub>2</sub> plasma gas.
- 17. (Previously Presented) The method of claim 30, wherein the at least one second gas includes HBr plasma gas.
- 18. (Previously Presented) The method of claim 30, wherein the at least one second gas includes a composition of HBr plasma gas and Cl<sub>2</sub> plasma gas.
- 19. (Previously Presented) The method of claim 30, wherein the at least one second gas the at least one second gas includes a composition of HBr plasma gas and CH<sub>4</sub> plasma gas.
- 20. (Previously Presented) The method of claim 30, wherein the metal layer includes one of indium tin oxide (ITO) and indium zinc oxide (IZO).
  - 21. (Previously Presented) The method of claim 30, further comprising: removing the photoresist pattern from the pixel electrode.

22. (Currently Amended) A method of patterning a metal layer, comprising:

depositing a metal layer over a substrate;

forming a mask on a surface of the metal layer, leaving an upper portion of said metal layer uncovered;

exposing the uncovered portion of said metal layer to a first plasma, prior to any step of etching said metal layer, thereby lowering an internal binding force in the uncovered portion to increase a subsequent etch rate of said metal layer; and

etching the uncovered portion of said metal layer with a second plasma to form a metal pattern, wherein said depositing a metal layer over a substrate, forming a mask on a surface of the metal layer, <u>and</u> exposing the uncovered portion of said metal layer and etching the uncovered portion of said metal layer are sequentially performed[[,]] said etching the uncovered portion of said metal layer being the first step-of etching performed in said sequence.

- 23. (Original) The method of claim 22, wherein the first plasma includes H<sub>2</sub> plasma gas.
- 24. (Original) The method of claim 22, wherein the first plasma includes Ar or  $N_2$  plasma gas.

- 25. (Original) The method of claim 22, wherein the second plasma includes HBr plasma gas.
- 26. (Original) The method of claim 22, wherein the second plasma includes a composition of HBr plasma gas and Cl<sub>2</sub> plasma gas.
- 27. (Original) The method of claim 22, wherein the second plasma includes a composition of HBr plasma gas and CH<sub>4</sub> plasma gas.
- 28. (Original) The method of claim 22, wherein the metal layer includes one of indium tin oxide (ITO) and indium zinc oxide (IZO).
- 29. (Original) The method of claim 22, wherein the metal pattern includes a pixel electrode of a display device.
- 30. (Currently Amended) A method of manufacturing a pixel electrode in a liquid crystal display device, comprising:

depositing a metal layer on a passivation layer which partially covers a transistor;

forming a photoresist pattern on a surface of the metal layer, leaving an upper portion of the metal layer uncovered;

exposing the uncovered portion of said metal layer to at least one first gas, prior to any step of etching said photoresist pattern and prior to any step of etching said metal layer, to lower an internal binding force in the uncovered portion to increase a subsequent etch rate of said metal layer; and

etching the uncovered portion of said metal layer with at least one second gas to form a pixel electrode, wherein said depositing a metal layer on the passivation layer, forming a photoresist pattern, <u>and</u> exposing the uncovered portion of said metal layer and etching the uncovered portion of said metal layer are sequentially performed[[,]] said etching the uncovered portion of said metal layer being the first step of etching performed in said sequence.

31. (Currently Amended) A method of manufacturing a pixel electrode in a liquid crystal display device, comprising:

depositing a metal layer on a passivation layer which partially covers a transistor;

forming a photoresist pattern on a surface of the metal layer, leaving an upper portion of the metal layer uncovered;

exposing the uncovered portion of said metal layer to at least one first gas, prior to any step of etching, to lower an internal binding force in the uncovered portion to increase a subsequent etch rate of said metal layer; and

etching the uncovered portion of said metal layer with at least one second gas to form a pixel electrode, wherein said depositing a metal layer on

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the passivation layer, forming a photoresist pattern, <u>and</u> exposing the uncovered portion of said metal layer and etching the uncovered portion of said metal layer are sequentially performed[[,]] said etching the uncovered portion of said metal layer being the first step of etching performed in said sequence.